

# Test Report

Report No.: AGC03507200505-001

Date: May 20, 2020

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Applicant: MID OCEAN BRANDS B.V  
Address: 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong  
Test site: 1,6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen, Guangdong, China

## Report on the submitted samples said to be:

Sample Name : Glass lunch box with locking lid  
Model : MO9923  
Country of origin : CHINA  
Country of destination : EUROPE  
Vendor Code : 107978  
Sample Receiving Date : May 14, 2020  
Testing Period : May 14, 2020 to May 20, 2020

Test Requested : Please refer to next page(s).

Test Method : Please refer to next page(s).

Test Result : Please refer to next page(s).

Approved by:

Liangdan, Jessie Liang

Technical Director



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## Test Requested:

## Conclusion

1. As specified by client, to determine the Lead compounds content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.

Pass

2. As specified by client, to determine the Cadmium(Cd)content in the Submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.

Pass

3. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.

Pass

### Part1: Glass

4.As specified by client, to determine the Leachable Lead and Cadmium content in Ceramic Ware with reference to Regulation NO.84/500/EEC and 2005/31/EC.

Pass

### Part 2: Silicone material

5. As specified by client, to test sample with reference to Regulation 1935/2004/EC , Council of Europe Resolution AP (2004) 5 and (EU) 2018/213 for:

- Overall Migration(3%(w/v) Acetic acid, 50%(v/v) Ethanol)
- Migration of BPA

Pass  
Pass

### Part 3: Plastic material

6. As specified by client, to test sample with reference to Regulation 1935/2004/EC, Council of Europe Resolution EU (No) 10/2011& (EU)2016/1416&(EU)2017/752 and (EU) 2018/213 for:

- Overall Migration(3%(w/v) Acetic acid, 50%(v/v) Ethanol)
- Migration of BPA
- Migration of Heavy metals

Pass  
Pass  
Pass

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## Test Results:

### 1. Test Result(s) of Pb:

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-1	1-2	
Lead (Pb)	IEC 62321-5:2013	10	N.D	N.D	500
Conclusion	ICP-OES	/	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
  2. N.D.=Not Detected(less than method detection limit)
  - 3.As specified by client, only test the designated sample

### 2. Test Result(s) of Cd:

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-1	1-2	
Cadmium (Cd)	IEC 62321-5:2013	10	N.D	N.D	100
Conclusion	ICP-OES	/	Pass	Pass	/

- Note:**
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  2. N.D.=Not Detected(less than method detection limit)
  - 3.As specified by client, only test the designated sample

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## 3. Test Result(s) of phthalates content:

Unit: %,w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-1	1-2	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	0.1
<b>Sum of DBP+BBP+DEHP+DIBP</b>		—	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	
<b>Sum of DNOP+DINP+DIDP</b>		—	N.D.	N.D.	0.1
<b>Conclusion</b>		/	<b>Pass</b>	<b>Pass</b>	/

- Note:**
1. MDL=Method Detection Limit
  2. N.D.=Not Detected(less than method detection limit)
  - 3.As specified by client, only test the designated sample

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## Part 1: Glass

### 4. Test Result(s) of Leachable Lead and Cadmium (NO.84/500/EEC and 2005/31/EC)

Unit: mg/L

Test Item(s)	Test Condition/ Equipment	MDL	Result(s)				Limit
			4% (v/v) Acetic acid				
			1-3-A	1-3-B	1-3-C	1-3-D	
Lead (Pb)	22°C, 24h/ICP-OES	0.1	N.D.	N.D.	N.D.	N.D.	4.0
Cadmium (Cd)		0.01	N.D.	N.D.	N.D.	N.D.	0.3
Conclusion		/	Pass	Pass	Pass	Pass	/

- Note:**
1. MDL=method detection limit
  2. N.D.=not detected (less than method detection limit)
  3. Results shown above are testing data of four groups.

## Part 2: Silicone

### 5.1 Test Result(s) of Overall Migration

Unit: mg/dm<sup>2</sup>

Test Solution	Test condition	MDL	Test Result(s)	Limit
			1-2	
3%(w/v) Acetic acid	70°C, 2h	5	N.D.	10
50%(v/v) Ethanol	70°C, 2h	5	N.D.	10
Conclusion	/	/	Pass	/

- Note:**
1. N.D.=not detected (less than method detection limit)
  2. MDL=method detection limit

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## 5.2 Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3% (w/v) Acetic acid	
			1-2	
Migration of BPA	70°C, 2h/ LC-MS-MS	0.02	N.D.	0.05
Conclusion	/	/	Pass	/

Note: 1. N.D.=not detected (less than method detection limit)

2. MDL=method detection limit

## Part 3: PP

### Test Result(s):

#### 6.1 Test Result(s) of Overall Migration

Unit: mg/dm<sup>2</sup>

Test Solution	Test condition	MDL	Test Result(s)	Limit
			1-1	
3%(w/v) Acetic acid	70°C, 2h	5	N.D.	10
50%(v/v) Ethanol	70°C, 2h	5	N.D.	10
Conclusion	/	/	Pass	/

Note: 1. N.D.=not detected (less than method detection limit)

2. MDL=method detection limit

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## 6.2.Migration of Heavy metals

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3% (w/v) Acetic acid	
			1-1	
Aluminum(Al) (M)	70°C, 2h / ICP-OES	0.5	N.D.	1
Barium ( Ba ) (M)		0.25	N.D.	1
Cobalt (Co) (M)		0.01	N.D.	0.05
Copper (Cu) (M)		0.25	N.D.	5
Iron (Fe) (M)		0.25	N.D.	48
Lithium (Li) (M)		0.5	N.D.	0.6
Manganese (Mn) (M)		0.25	N.D.	0.6
Zinc (Zn) (M)		0.5	N.D.	5
Nickel (Ni) (M)		0.01	N.D.	0.02
Conclusion		/	Pass	/

**Note:** 1. N.D.=not detected (less than method detection limit)

2. M= Migration

3. MDL= method detection limit

## 6.3 Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3% (w/v) Acetic acid	
			1-1	
Migration of BPA	70°C, 2h/ LC-MS-MS	0.02	N.D.	0.05
Conclusion	/	/	Pass	/

**Note:** 1. N.D.=not detected (less than method detection limit)

2. MDL=method detection limit

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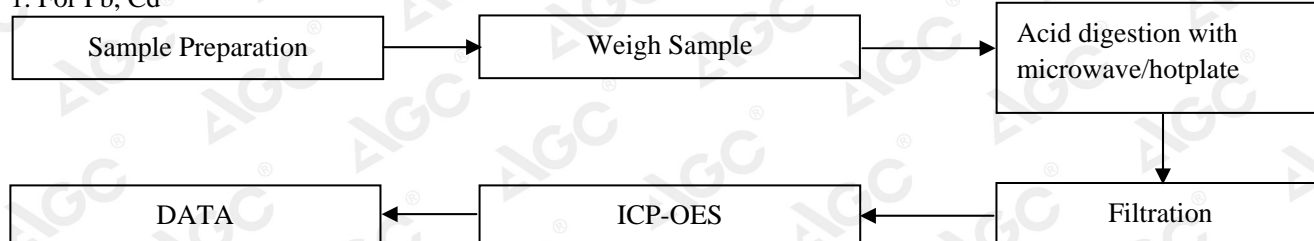
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## Sample Description

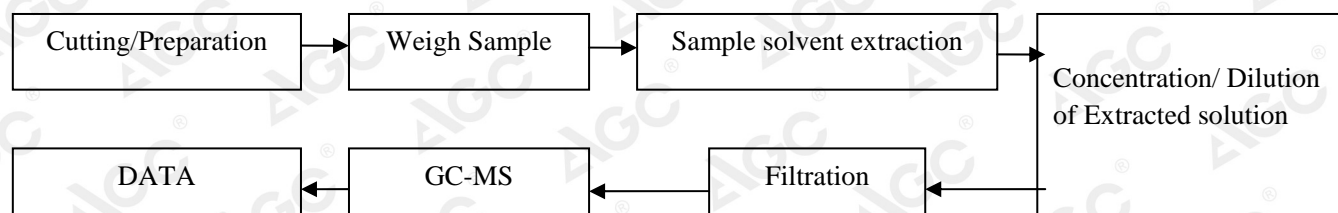
1-1	PP lid
1-2	Silicone ring
1-3	Glass bowl

## Test Flow Chart

### 1. For Pb, Cd



### 2. For phthalates



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## The photo of the sample



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AGC authenticate the photo on original report only

\*\*\* End of Report\*\*\*

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